PDF Adjust

User Manual

Version 1.2.1

2009-04-08

SEAL Systems

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SEAL Systems AG
Lohmühlweg 4
D-91341 Röttenbach
Germany

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1 Introduction

This documentation describes the installation and the usage of PDF Adjust. purpose

It is intended for use by users who want to use PDF Adjust. target group

The configuration of PDF Adjust is described in [PDFADJUST_TEC]. Reference

This chapter deals with the following topics: in this chapter

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PDF

standard format

Within the last few years, PDF has been increasingly established as a standard format for exchanging digital documents in and between companies. The range of PDF files reaches from digital forms and interactive catalogues to digital artworks.

advantages

PDF can be used universally for various document types and purposes. This is one of the most important advantages of PDF compared to other document formats.

problems

But in practice, the great flexibility and the versatile application of PDF also result in a wide variety of PDF files generated in different ways.

For example, fonts might be displayed very differently depending on the PDF file using the fonts installed on the system or using the fonts embedded in the PDF file. If the fonts are embedded, the PDF file is displayed identically on every system. If the system fonts are used, some characters probably cannot be displayed if the character is not available in the font or the font is not available on the system.

PDF/A

PDF/A standard

The PDF/A standardization group was founded in order to specify additional requirements for PDF files suitable for long-term preservation. This group worked out an ISO standard (ISO/DIS 19005-1) which specifies the require--ments for PDF files suitable for long-term preservation.

intentions

Important intentions of the PDF/A standard are:

- Availability and accessibility of the documents throughout several tech--nology generations
- Securing a constant layout
- Clear conventions concerning the structure, the semantic information and the representation of text (to allow the document contents to be evaluated automatically further on)
- Promotion of PDF/A-conform products such as readers, converters or vali-dators

This will be achieved by specifying functions and properties of the PDF format definition more precisely or by prescribing them as mandatory while other elements and functions that are problematic for the preservation are restricted or completely excluded. This means that PDF/A does not specify new functionality but reduces the existing PDF basic functionality in a reasonable way. PDF/A-conform files always are conform to the basic PDF format definition by Adobe.

level

The PDF/A standard specifies two levels of conformity. Level A contains all rules of the PDF/A standard, level B contains all rules that are important for the representation. Relating to the PDF/A standard, these are all paragraphs except 6.3.8 and 6.8.

PDF Checker and PDF Adjust

check

The command line program PDF Checker by SEAL Systems checks if a PDF file complies with the rules specified in a configuration file. For example you check if a PDF file is suitable for long-term preservation and this way avoid that your archive is possibly unnoticed filled with data which can not be reproduced correctly later on.

Reference

Refer to PDF Checker for more information about the installation and usage of [PDFCHECKER_USR]. The configuration of PDF Checker is described in [PDFCHECKER_TEC].

adjustment

The command line program PDF Adjust by SEAL Systems manipulates a PDF file according to rules specified in a configuration file. PDF Adjust can also process results provided by PDF Checker, this means if PDF Checker found a distinctive feature in a PDF file, PDF Adjust manipulates the correspondent parts in the PDF file.

Reference

For the interpretation of the result and the configuration of PDF Adjust, knowl-- edge of both the PDF/A standard (see [ISO19005-1]) and the PDF format defi-- nition by Adobe (see [PDF_REF]) are required.

Conventions in this Documentation

path specification

The path information given in this documentation is relative to the installation directory of PDF Adjust.

typography

The following table lists the typographical conventions employed in this documentation for file names, paths, variables, etc.

Typographical Convention	Meaning
`Courier`	File names, paths, commands, key terms, special values, short scripts and examples
`Courier italic`	Parameters; variables that must be replaced by current values
`Courier small`	More extensive scripts and examples

Overview of Contents

topics

The documentation deals with the following topics:

Chapter 2, *Overview*, page 7, briefly shows the functionality of PDF Adjust and the interaction between PDF Adjust and PDF Checker.

Chapter 3, *Installation*, page 9, explains how to install PDF Adjust on your system and lists the requirements for the installation.

Chapter 4, *Usage*, page 19, describes how to call PDF Adjust and which results are provided by PDF Adjust.

Chapter 5, *Configured Manipulations and Sections*, page 32 provides a description of the manipulations and the sections that can be executed separately.

lists

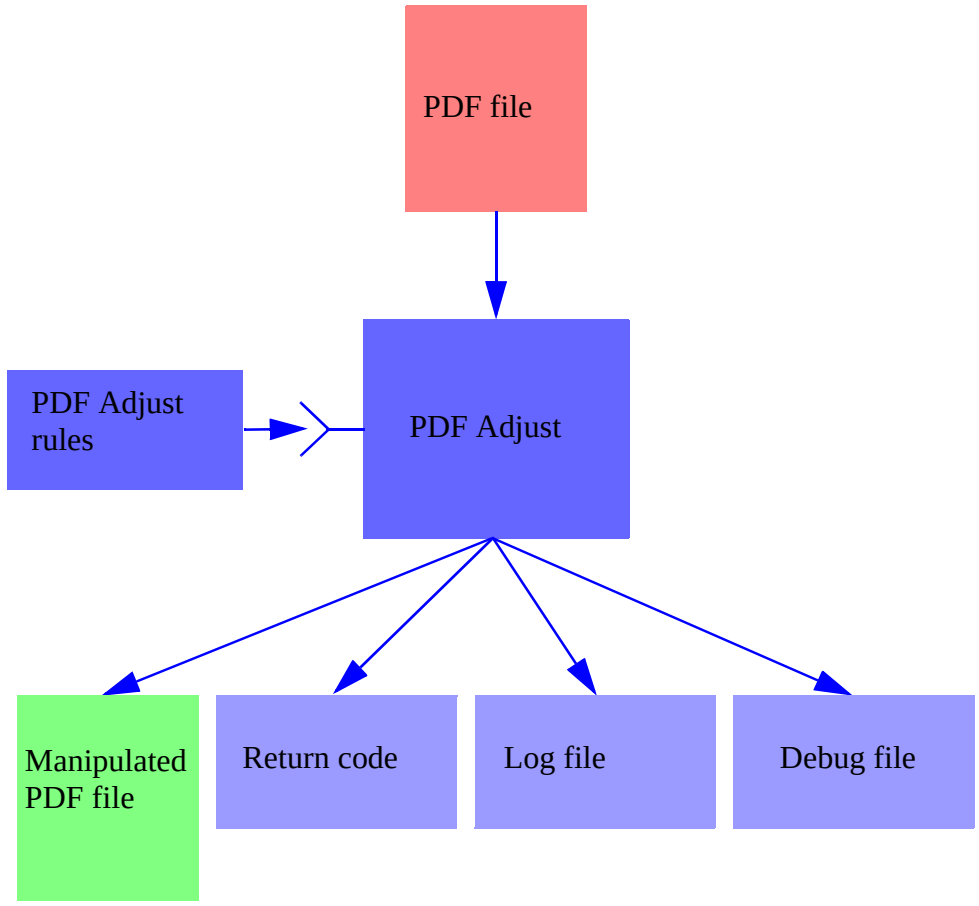
For an easier overview, a terminology list, bibliog-raphy, and index are included at the end of the documentation.

2 Overview

This chapter provides you with a short overview of the functionality of PDF Adjust. contents

The command line program PDF Adjust by SEAL Systems manipulates a PDF file according to specified rules. You configure these rules in a configuration file. rules

As a result of the manipulations, PDF Adjust returns the manipulated PDF file, a return code, a log file listing all features manipulated by and, if desired, a debug file containing information about the program run. result

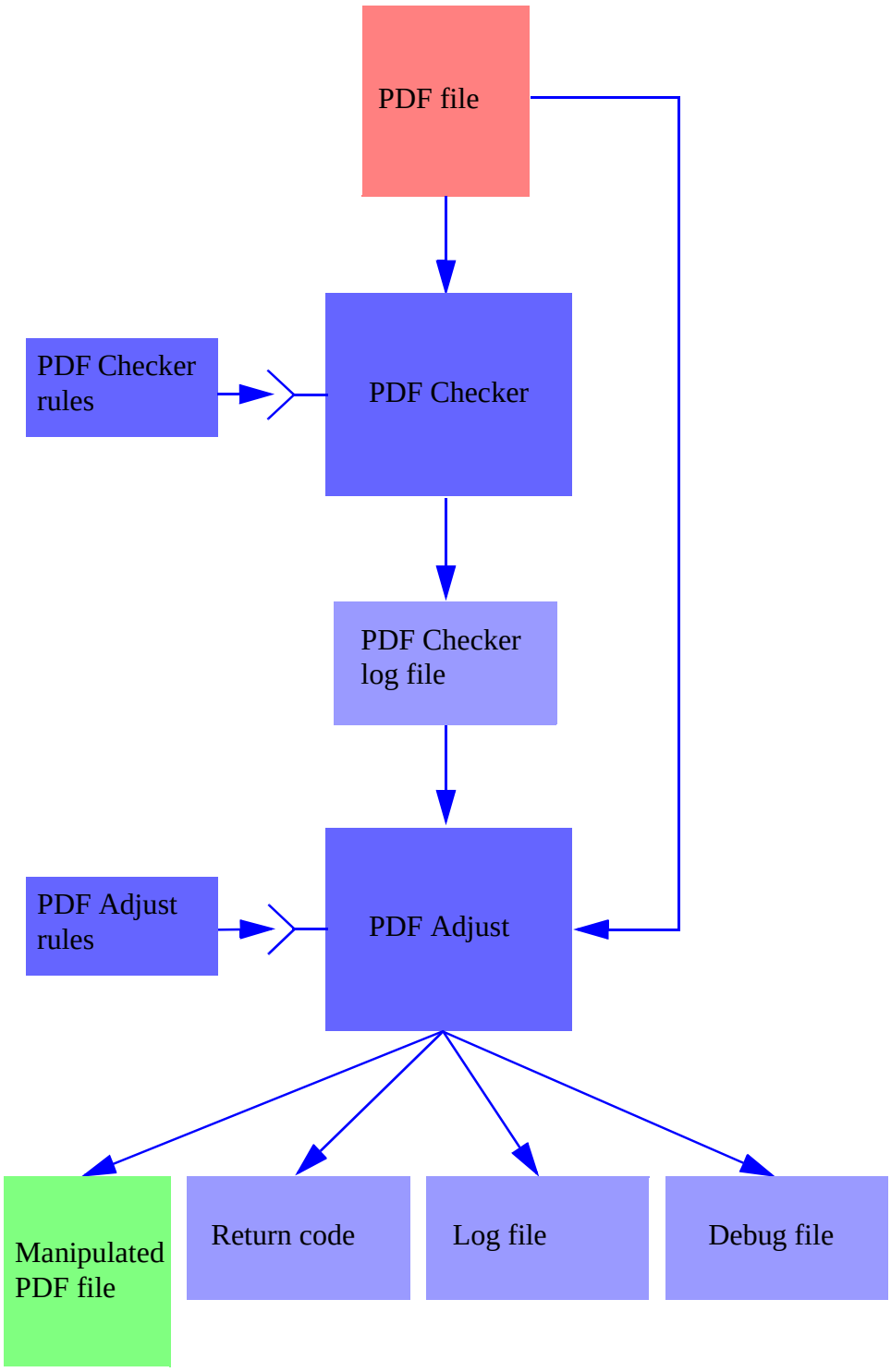


To be continued

Overview, Continuation

cooperation with PDF Checker

PDF Adjust can also determine the manipulation to be executed from the log file written by PDF Checker when checking a PDF file. The manipulation to be executed at a specific check result is configured in the configuration file of PDF Adjust.



3 Installation

This chapter describes the installation of PDF Adjust:. in this chapter

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3.1 Requirement

operating system

PDF Adjust is available for the following operating systems:

- Windows XP, 2003 Server, Vista
- Linux SLES 9 (GLIBC v2.1.x is required)
- HP-UX release 11.0
- Sun Solaris release 2.6 or higher

3.2 Installation of PDF Adjust

On Windows, normally PDF Adjust is installed using the MSI package for PDF Longlife Suite.

Windows

On UNIX, you copy PDF Adjust manually into the installation directory.

UNIX

The `$PLSROOT/tools/adobe/fonts` and `$PLSROOT/tools/adobe/cmap` directories must not be write-protected because PDF Adjust will create the `AdobeFont11.lst` file in these directories when being called for the first time.

Caution: Directories

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Install the MSI Package

instructions

This is how you install PDF Adjust using the MSI package for PDF Longlife Suite:

Step	Action
1	Double-click `pdflonglife.msi` or enter the following command into the command line: `msiexec /i pdflonglife.msi`
2	Follow the instructions of the installation program.

result

After the installation, all files and directories are available in the specified installation directory and in the user-specific directories of the Windows system.

Copy PDF Adjust Manually

This is how you copy PDF Adjust manually: instructions

Step	Action
1	Copy the directories and files that belong to the installation (see *Directory Structure*, page 15), into any target directory. In a PLOSSYS netdome environment, copy the directories and files into the directory that the `PLSROOT` environment variable refers to. Usually, this is the home directory of the `plossys` user.

After the installation, all files and directories are available in the target directory. result

3.3 Uninstallation of PDF Adjust

MSI installation

If PDF Adjust was installed on your system using the MSI package for PDF Longlife Suite, remove it by using the software management in Windows.

Caution: Directories

The `$PLSROOT/tools/adobe/fonts` and `$PLSROOT/tools/adobe/cmap` directories will not be removed because PDF Adjust has created the `AdobeFont11.lst` file in these directories when being called for the first time.

manual installation

If PDF Adjust was copied manually, remove all files and directories that belong to the PDF Adjust installation from your system.

3.4 Directory Structure

installation mode

The directory structure of the installation of PDF Adjust differs depending on if the program has been installed using the `pdflonglife.msi` MSI package or not.

without MSI package

If you did not use the `pdflonglife.msi` MSI package, the following directories and files belong to the installation:

Directory/File	Description
doku	Documentations directory
pdfadjust_tec_de.pdf	German System Description
pdfadjust_tec_en.pdf	English System Description
pdfadjust_usr_de.pdf	German User Manual
pdfadjust_usr_en.pdf	English User Manual
doku/copyright	Directory containing the license documents
`install/pdflonglife`	Directory containing the installation program
pdflonglife.msi	MSI package for Windows
`tools/adobe/cmap`	Directory containing CMap files for the fonts
*.cmap	CMap files
`AdobeFont11.lst`	File containing font information (creates PDF Adjust when called for the first time)
`tools/adobe/font`	Directory containing definition files for the fonts
*.mmm	mmm files
*.otf	otf files
*.pfb	pfb files
*.pfm	pfm files
`AdobeFont11.lst`	File containing font information (creates PDF Adjust when called for the first time)

To be continued

Directory Structure, Continuation

Directory/File	Description
`tools/bin_os`	Directory containing the executables and libraries
`DL81ACE.dll` (Windows) `DL81AdobeXMP.dll` (Windows) `DL81AGM.dll` (Windows) `DL81ARE.dll` (Windows) `DL81AXE8SharedExpat.dll` (Windows) `DL81BIB.dll` (Windows) `DL81BIBUtils.dll` (Windows) `DL81CoolType.dll` (Windows) `DL81JP2KLib.dll` (Windows) `DL81pdfl.dll` (Windows)	Files of Adobe PDF Library for Windows
`libDL81ACE.so` (Linux, Solaris) `libDL81AdobeXMP.so` (Linux, Solaris) `libDL81ARE.so` (Linux, Solaris) `libDL81AGM.so` (Linux, Solaris) `libDL81AXE8SharedExpat.so` (Linux, Solaris) `libDL81BIB.so` (Linux, Solaris) `libDL81BIBUtils.so` (Linux, Solaris) `libDL81CoolType.so` (Linux, Solaris) `libDL81JP2KLib.so` (Linux, Solaris) `libDL81pdfl.so` (Linux, Solaris)	Files of Adobe PDF Library for Linux and Solaris
`libDL81ACE.sl` (HP-UX) `libDL81AdobeXMP.sl` (HP-UX) `libDL81ARE.sl` (HP-UX) `libDL81AXE8SharedExpat.sl` (HP-UX) `libDL81AGM.sl` (HP-UX) `libDL81BIB.sl` (HP-UX) `libDL81BIBUtils.sl` (HP-UX) `libDL81CoolType.sl` (HP-UX) `libDL81JP2K.sl` (HP-UX) `libDL81pdfl.sl` (HP-UX)	Files of Adobe PDF Library for HP-UX
pdfadjust (UNIX)	PDF Adjust program for UNIX
pdfadjust.exe (Windows)	PDF Adjust program for Windows

To be continued

Directory Structure, Continuation

Directory/File	Description
`tools/convcfg/pdflls`	Directory containing configuration files and color profiles
AdobeRGB1998.icc	Color profile for RGB
BlackWhite.icc	Color profile for S/W
ISOcoated_v2_eci.icc	Color profile for CMYK
pdfadjust.cfg	Global configuration file
pdfadjust.ini	Manipulations for PDF/A standard etc.
`tools/language/pdflls`	Directory containing the language files
de.cfg	German texts of the messages
en.cfg	English texts of the messages
fr.cfg	French texts of the messages

Caution: Copyright

The `ISOcoated_v2_eci.icc` color profile is subject to Copyright by European Color Initiative - www.eci.org.

The license text by Heidelberger Druckmaschinen AG for distributing the color profile is available in the `doku/copyright` directory on the server or the `docu/copy-right` directory when the MSI installation has been executed.

3.5 Environment Variables

PDF Adjust requires or considers the following environment variables:

Environment Variable	Meaning
LD_LIBRARY_PATH	specifies the directory containing the libraries (`$PLSROOT/tools/bin_os`). This environment variable must be set on Linux and Solaris.
PDFLLS_CONFIG_DIR	specifies the directory with the `$PLS_APPLICATION` subdirectory where PDF Adjust searches for the configuration files and the color profiles. The specification with the `-i` parameter takes priority to `PDFLLS_CONFIG_DIR`. Default: `$PLSTOOLS/convcfg`
PLS_APPLICATION	specifies the name of the application. Default: `pdflls`
PLS_LANG	specifies the language for the PDF Adjust output. Default: `en`
PLS_LANG_FILE	specifies the language file explicitly. Default: `$PLSTOOLS/language/$PLSAPPLICATION/$PLS_LANG.cfg`
PLSROOT	specifies the installation directory of PDF Adjust. This environment variable must be set.
PLSTOOLS	specifies the directory with the `convcfg` subdirectory for the configuration files and the `language` subdirectory for the language files. Default: `$PLSROOT/tools`
PSRESOURCEPATH	specifies the directories where the Adobe PDF Library searches for fonts and CMaps. Several directories are separated by '`;`' on Windows and by '`:`' on UNIX. Default: `$PLSROOT/tools/adobe/font;$PLSROOT/tools/adobe/cmap`
SH_LIBPATH	specifies the directory containing the libraries (`$PLSROOT/tools/bin_os`). This environment variable must be set on HP-UX.

4 Usage

in this chapter

This chapter describes the usage of PDF Adjust:

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4.1 Call of PDF Adjust

instructions

This is how you call PDF Adjust:

```
pdfadjust[.exe] -f inputfile -o outputfile [parameter]
```


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Hint

The file name of the PDF file applies the convention for file names valid on the correspondent operating systems.

Hint

On Windows, the graphical user interface, PDF Longlife, is available. This calls PDF Checker and, if available and configured, PDF Adjust.

Drag and drop the PDF file to be adjusted on the program icon or open the PDF file with `File` → `Open` in the graphical user interface.

Parameters

The following table lists alphabetically the supported parameters and their meanings:

Parameter	Meaning
`-c` *`cfgfile`*	specifies the name of the configuration file containing the rules for the manipulations. **Caution** - Name and directory: With `-c`, you specify the name of the configuration file and with `-i` the path of the configuration file. Otherwise, PDF Adjust will not find the included configuration files and color profile files. Default: `pdfadjust.cfg` in the current directory or in `$PDFLLS_CONFIG_DIR/pdflls`
`-d` *`debuglevel`*	specifies the level of the debug messages that PDF Adjust writes into the debug file. (Values for *`debuglevel`* see*Debug File*, page 29) Default: `2`
`-f` *`inputfile`*	specifies the name of the PDF input file to be manipulated. This parameter is mandatory.
`-h`	provides a summary of the supported parameters.
`-i` *`cfgdir`*	specifies the directory containing the configuration files and the color profiles. Default: The current directory and `$PDFLLS_CONFIG_DIR/pdflls`.
`-k` *`checklogfile`*	specifies the name of the PDF Checker log file to be interpreted by PDF Adjust. **Caution** - Combination of `-k` and `-n`: If the `-n` parameter is specified, the `-k` parameter will be ignored. Default: No PDF Checker log file is interpreted.
`-l` *`debugfile`*	specifies the name of the debug file into that PDF Adjust writes details of the program run. Default: `pdfadjust.log` in the current directory

To be continued

Parameters, Continuation

Parameter	Meaning
`-n` *`section`*	specifies the name of a single section containing the manipulations to be executed. (Values for *`section`* see *Configured Manipulations and Sections*, page 32) **Caution** - Combination of `-k` and `-n`: If the `-n` parameter is specified, the `-k` parameter will be ignored. Default: `PDFA1B`
`-o` *`outputfile`*	specifies the directory and name of the manipulated PDF output file. This parameter is mandatory.
`-p` *`logfile`*	specifies the name of the log file into that PDF Adjust writes the results of the manipulations. Default: *`inputfile`*`.log` in the directory of the PDF file *`inputfile`* to be manipulated
`-pw` *`password`*	specifies the password for opening a protected file. Hint: The password for opening is the user password of a PDF file. The owner password for changing the PDF file is specified in the `Security` manipulation. Default: No password

Input and Manipulated Output File

name

PDF Adjust creates the output file, this means the manipulated PDF file, under the name specified with the `-o` parameter. If you do not specify a directory here, PDF Adjust creates the output file in the current directory.

size

Normally, the manipulated output file is larger than the input file because fonts and color profiles are embedded.

PDF version

The PDF version of the output file might be different to the PDF version of the output file if PDF elements or properties not yet available in the input file's PDF version are inserted. For example, XMP metadata have been introduced into the format definition with PDF version 1.3.

Reference

[PDFADJUST_TEC] describes how you explicitly set the PDF version of the output file.

signature

By default, PDF Adjust does not manipulate PDF files protected by signature and, therefore, does not create an output file. However, the manipulations that could be processed if the PDF file did not contain a signature are logged into the log file. Additionally, PDF Adjust writes a note concerning the signature into the log file. The return code is `8`.

Reference

[PDFADJUST_TEC] describes how to configure that PDF Adjust ignores the signature in the input file.

password protection

The PDF format definition provides two types of passwords for protecting PDF files. The user password for opening the PDF file and the owner password for changing the PDF files. The user password is specified with the `-pw` parameter. PDF Adjust can not manipulate PDF files protected against changes by an owner password. An output file is not created here either. However, the manipulations that could be processed if the PDF file was not protected against changes are logged into the log file. Additionally, PDF Adjust writes a note concerning the password protection into the log file. The return code is `9`.

Examples of PDF Adjust Calls:

Example defaults

```
pdfadjust -f test.pdf -o test_out.pdf
```

PDF Adjust manipulates the `test.pdf` file according to the default rules, saves the manipulated file as `test_out.pdf` in the current directory, creates the `test.pdf.log` log file in the directory where the `test.pdf` file is located and writes messages of the debug level 2 into the `pdfadjust.log` debug file in the current directory.

log and debug file

```
pdfadjust -f test.pdf -o $HOME/test_out.pdf -p $HOME/
pdfadjust_test.log -l $TMP/pdfadjust.dbg -d 5
```

PDF Adjust manipulates the `test.pdf` file according to the default rules, saves the manipulated file as `test_out.pdf` in the `$HOME` directory, creates the `pdfadjust_test.log` log file in the `$HOME` directory and writes messages of the debug level 5 into the `pdfadjust.dbg` debug file in the `$TMP` directory.

single manipulation

```
pdfadjust -f test.pdf -o test_out.pdf -n EmbedFonts
```

PDF Adjust executes the `EmbedFonts` manipulation in the `test.pdf` file, saves the manipulated file as `test_out.pdf` in the current directory, creates the `test.pdf.log` log file in the directory where the `test.pdf` file is located and writes messages of the debug level 2 into the `pdfadjust.log` debug file in the current directory.

PDF Checker-log file

```
pdfadjust -f test.pdf -o test_out.pdf -k test.pdf.pdfchecker.log
```

PDF Adjust manipulates the `test.pdf` file according to the distinctive features that PDF Checker found in the file and logged into the `test.pdf.pdfchecker.log` log file, saves the manipulated file as `test_out.pdf` in the current directory, creates the `test.pdf.log` log file in the directory where the `test.pdf` file is located and writes messages of the debug level 2 into the `pdfadjust.log` debug file in the current directory.

4.2 Return Code

After processing a PDF file, PDF Adjust returns either a value that indicates an error during execution of the program or a value that results from the priorities of the executed manipulations. In the second case, PDF Adjust returns the highest priority for that a manipulation had been executed in the PDF file.

error or manipulation result

The following table lists the values returned by PDF Adjust and their meanings:

return code

Return Code	Meaning
`0`	The PDF file has been manipulated successfully.
`1`	The manipulations of the PDF file terminated with warning, this means PDF Adjust executed at least one manipulation returning `Warning`.
`2`	The manipulations of the PDF file terminated with error, this means PDF Adjust executed at least one manipulation returning `Error`.
`3`	The manipulations of the PDF file terminated with fatal error, this means PDF Adjust executed at least one manipulation returning `FatalError`.
`4`	The input file can not be processed.
`5`	An error occurred while running the program.
`6`	The input file is password-protected and could not be opened due to no or a wrong password had been specified.
`7`	No manipulations are required because the PDF Checker log file does not contain distinctive features. No output file is created.
`8`	The input file is protected by signature. No output file is created.
`9`	The input file is encrypted and protected against changing. No output file is created.
`10`	An error occurred while parsing the configuration file or the manipulation specified with the `-n` parameter is unknown.
`11`	A parameter is missing or incorrect.
`12`	A file can not be accessed.

To be continued

Return Code, Continuation

Return Code	Meaning
13	An error occurred while creating the log file.
14	The configuration file can not be accessed.
15	The configuration of PDF Adjust and the PDF Checker log file do not match.
16	An error occurred while creating the output file.

4.3 Log File

PDF Adjust writes the results of manipulating a PDF file into the log file.

default

By default, PDF Adjust creates the log file in the directory in that the PDF file to be manipulated is located. The name of the log file is the name of the PDF file and the `.log` extension. For example, the log file for `test.pdf` will be `test.pdf.log` by default.

explicit specification

With the `-p` parameter, you specify another directory and another name.

Caution: Directory

PDF Adjust does not create directories. Therefore, specify an exis-tent directory here.

format

The log file can be output in XML or as text file. By default, the log file is formatted in XML.

language

The language for the output messages is specified in the environment variable `PLS_LANG`.

Reference

For information about how to configure the log file format and the messages output by the manipulations, refer to [PDFADJUST_TEC].

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Example of a Log File

Example

Extract of a log file:

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<DocumentTask Document="T:\keep\testfiles\pdf\pdf_XXL_1.pdf">

  <Task Code="2" Name="PDF" Result="Error" Type="document">
    <Producer Version="1.2.0.0">PDF Adjust</Producer>
    <DateTime>2008-10-14T15:47:06</DateTime>
    <Task Code="2" Name="Global" Result="Error">
      <Description></Description>
      <Task Code="2" Name="PDFA1B" Result="Error">
        <Description></Description>
        <Task Code="2" Name="AnnotationAdjust" Result="Error">
          <Description></Description>
          <Task Code="2" Name="AnnotRemoveTypes" Result="Error" Type="page">
            <Description>An annotation can not be removed.</Description>
          </Task>
          <Task Code="7" Name="AnnotRemoveActions" Result="Nothing to do"
Ty-pe="page"/>
          <Task Code="7" Name="AnnotRemoveAdditionalAction" Result="Nothing to
do" Type="page"/>
         <Task Code="2" Name="WidgetAnnotationAdjust" Result="error" Type="page">
            <Description>A widget annotation contains a prohibited action.</
Description>
          </Task>
          <Task Code="2" Name="WidgetAnnotationAPStreamAdjust" Result="Error"
Type="page">
           <Description>A widget annotation has a nonconform appearance stream.</
Description>
        </Task>
          <Task Code="7" Name="AnnotRemoveTransparency" Result="Nothing to do"
Type="page"/>
          <Task Code="7" Name="AnnotAdjustFFlags" Result="Nothing to do"
Type="pa-ge"/>
          <Task Code="2" Name="AnnotRemoveAppearanceStream" Result="Error"
Ty-pe="page">
         <Description>The apearance stream of an annotation can not be adjusted.</
Description>
          </Task>
.
.
.
        <Task Code="2" Name="WordAdjust" Result="Error">
          <Description></Description>
          <Task Code="2" Name="WordEncodingMissingAdjust" Result="Error"
Ty-pe="page">
            <Description>The encoding is missing for a word.</Description>
          </Task>
        </Task>
        <Task Code="2" Name="ElementAdjust" Result="Error" Type="page">
          <Description>The page contains prohibited elements.</Description>
          </Task>
        <Task Code="2" Name="BookmarkAdjust" Result="Error">
          <Description></Description>
          <Task Code="7" Name="BookmarkActionAdjust" Result="Nothing to do"
Ty-pe="document"/>
       <Task Code="2" Name="BookmarkNamedAdjust" Result="Error" Type="docu-ment">
           <Description>A bookmark contains a prohibited named action.</Descrip--
tion>
        </Task>
          </Task>
        <Task Code="2" Name="SecurityAdjust" Result="Error" Type="document">
          <Description>The document contains security settings.</Descrip-tion>
          </Task>
        </Task>
      </Task>
    </Task>

  <Summary>
    <Producer>PDF Adjust</Producer>
    <Version>1.2.0.0</Version>
    <Result Code="2">Error</Result>
    <DateTime>2008-10-14T15:47:06</DateTime>
  </Summary>

</DocumentTask>
```

4.4 Debug File

PDF Adjust writes information about the program run and details of the manipulations into the debug file. This file is optional.

PDF Adjust creates the debug file by default in the current directory. The name of the debug file is `pdfadjust.log`.

default

With the `-l` parameter you specify another directory and another name.

explicit specification

PDF Adjust does not create directories. Therefore, specify an exis-tent directory here.

Caution: Directory

In order to prevent PDF Adjust from writing a log file, specify `-l /dev/null` on UNIX and `-l NUL` on Windows when calling PDF Adjust!

Hint

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Debug Level and Message Format

debug level

With the `-d` parameter, you specify the level of output messages. The following table lists the values available for the `-d` parameter:

Level	Debug Level	Type
`0`	Error messages	`[E]`
`1`	Additional warnings	+ `[W]`
`2`	Additional start and stop messages from PDF Adjust and the manipulation result (this is default)	+ `[R]`
`3`	Additional passed parameters and which page was manipu-lated with which result	+ `[I]`
`4`	Additional single determined values which are helpful when searching errors and are interesting for the user	+ `[D]`
`5`	Additional parameters from the configuration file and the start and stop message and result of each manipulation	+ `[T]`

line format

A line in the debug file first shows the date and time. With this, you are able to see how long a complete run or single section lasted.

PID

After that, the PID (Process ID) that was assigned to a PDF Adjust run is output in brackets.

message type

Next the type of the message is output in brackets. The following table lists the possible values:

Type	Meaning
`R`	Start or stop message, result
`W`	Warning
`E`	Error
`I`	Info
`D`	Detail
`T`	Trace

Example of a Debug File

Extract of a debug file using debug level 2: Example

```
2008-10-14T15:47:04 [2532] [R] PDF Adjust 1.2.0.0 log file for
T:\keep\testfi-les\pdf\pdf_XXL_l.pdf
2008-10-14T15:47:06 [2532] [R] Dummy task OptionalContentAdjust started
2008-10-14T15:47:06 [2532] [R] OptionalContentAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task AddActionAdjust started
2008-10-14T15:47:06 [2532] [R] AddActionAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task MetadataUsedAdjust started
2008-10-14T15:47:06 [2532] [R] MetadataUsedAdjust finished with return value 0
2008-10-14T15:47:06 [2532] [R] Dummy task CatalogEFAdjust started
2008-10-14T15:47:06 [2532] [R] CatalogEFAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task CatalogJavaScriptAdjust started
2008-10-14T15:47:06 [2532] [R] CatalogJavaScriptAdjust finished with return value
2
2008-10-14T15:47:06 [2532] [R] Dummy task FormFieldAdjust started
2008-10-14T15:47:06 [2532] [R] FormFieldAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task OpenActionAdjust started
2008-10-14T15:47:06 [2532] [R] OpenActionAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task ICCAdjust started
2008-10-14T15:47:06 [2532] [R] ICCAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task TypeAdjust started
2008-10-14T15:47:06 [2532] [R] TypeAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Colorspace task SetOutputIntent started
2008-10-14T15:47:06 [2532] [R] SetOutputIntent finished with return value 0
2008-10-14T15:47:06 [2532] [R] Dummy task HeaderAdjust started
2008-10-14T15:47:06 [2532] [R] HeaderAdjust finished with return value 0
2008-10-14T15:47:06 [2532] [R] Dummy task TrailerAdjust started
2008-10-14T15:47:06 [2532] [R] TrailerAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task IDAdjust started
2008-10-14T15:47:06 [2532] [R] IDAdjust finished with return value 0
2008-10-14T15:47:06 [2532] [R] Dummy task RepairAdjust started
2008-10-14T15:47:06 [2532] [R] RepairAdjust finished with return value 0
2008-10-14T15:47:06 [2532] [R] CloseFlag task UncompressObjects started
2008-10-14T15:47:06 [2532] [R] UncompressObjects finished with return value 0
2008-10-14T15:47:06 [2532] [R] CloseFlag task VersionAdjust started
2008-10-14T15:47:06 [2532] [R] VersionAdjust finished with return value 0
2008-10-14T15:47:06 [2532] [R] Font task EmbedFonts started
2008-10-14T15:47:06 [2532] [R] EmbedFonts finished with return value -1
.
.
.
2008-10-14T15:47:06 [2532] [R] Image task ImageAlternateAdjust started for page 1
2008-10-14T15:47:06 [2532] [R] ImageAlternateAdjust finished with -1
2008-10-14T15:47:06 [2532] [R] Image task ImageInterpolationAdjust started for
page 1
2008-10-14T15:47:06 [2532] [R] ImageInterpolationAdjust finished with -1
2008-10-14T15:47:06 [2532] [R] Dummy task ImageStreamAdjust started
2008-10-14T15:47:06 [2532] [R] ImageStreamAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task PageAdditionalActionAdjust started
2008-10-14T15:47:06 [2532] [R] PageAdditionalActionAdjust finished with return
value 2
2008-10-14T15:47:06 [2532] [R] Dummy task PageTransparencyAdjust started
2008-10-14T15:47:06 [2532] [R] PageTransparencyAdjust finished with return value
2
2008-10-14T15:47:06 [2532] [R] Dummy task StreamExtRefAdjust started
2008-10-14T15:47:06 [2532] [R] StreamExtRefAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [R] Dummy task WordEncodingMissingAdjust started
2008-10-14T15:47:06 [2532] [R] WordEncodingMissingAdjust finished with return
va-lue 2
2008-10-14T15:47:06 [2532] [R] Dummy task ElementAdjust started
2008-10-14T15:47:06 [2532] [R] ElementAdjust finished with return value 2
2008-10-14T15:47:06 [2532] [E] Not all messages were translated
```

5 Configured Manipulations and Sections

configuration file

The manipulations are specified in the configuration file `pdfadjust.ini`. Partly, the manipulations are compiled to sections.

delivery

This chapter describes the sections and manipulations already enclosed in delivery.

Topic	Page
Profiles	33
Compiling Sections	34
Manipulations	35

Reference

For information about how to change the configuration, refer to [PDFADJUST_TEC].

Hint

A single manipulation or a single section of manipulations is specified with the `-n` parameter.

Profiles

The following sections are specified in the configuration file: profile

- `[PDFA]` contains all manipulations relevant for the PDF/A standard level A and level B. — level A and B
- `[PDFA1B]` contains all manipulations relevant for the PDF/A standard level B. — level B
- `[PDFA1A]` contains the manipulations only relevant for the PDF/A standard level A. — level A
- `[PDFA1B-MetadataAdjust]` contains all manipulations relevant for the PDF/A standard level B except the manipulations for the metadata. — level B without metadata
- `[PDFA1B-ColorspaceAdjust]` contains all manipulations relevant for the PDF/A standard level B except the manipulations for the color spaces. — level B without color space
- `[PDFA1B-SecurityAdjust]` contains all manipulations relevant for the PDF/A standard level B except the manipulations for the security settings. — level B without security
- `[PDFA1BPlusAdjust]` contains all manipulations relevant for the PDF/A standard level B and the manipulations that are relevant as requirements for a reader. — level B and reader requirement
- `[SEALAdjust]` contains additional manipulations specified by SEAL Systems. — SEAL Systems
- `[PlusAdjust]` contains the manipulations relevant as requirements for a reader. — reader requirement

Compiling Sections

object	The manipulations concerning some objects in PDF are compiled in further sections. These are listed here in alphabetical order.
annotation	• `[AnnotationAdjust]` contains all manipulations concerning the annotations.
bookmark	• `[BookmarkAdjust]` contains all manipulations concerning bookmarks.
catalog dictionary	• `[CatalogDictionaryAdjust]` contains all manipulations concerning the catalog dictionary.
color space	• `[ColorspaceAdjust]` contains all manipulations concerning the color spaces.
PDF file	• `[CommonAdjust]` contains all manipulations concerning the PDF file generally.
metadata	• `[ExtendedMetadataAdjust]` contains additional manipulations concerning the metadata.
font	• `[FontAdjust]` contains all manipulations concerning the fonts.
form	• `[FormAdjust]` contains all manipulations concerning the forms.
graphics state	• `[GraphicStateAdjust]` contains all manipulations concerning the graphics states.
image	• `[ImageAdjust]` contains all manipulations concerning images.
metadata	• `[MetadataAdjust]` contains all manipulations concerning metadata.
page	• `[PageAdjust]` contains all manipulations concerning the pages.
stream	• `[StreamAdjust]` contains all manipulations concerning streams.
metadata (strict)	• `[StrictExtendedMetadataAdjust]` contains additional manipulations concerning the metadata. All differences are treated as errors.
font (strict)	• `[StrictFontAdjust]` contains all manipulations concerning the fonts. All differences are treated as errors.
metadata (strict)	• `[StrictMetadataAdjust]` contains all manipulations concerning metadata. All differences are treated as errors.
word	• `[WordAdjust]` contains all manipulations concerning words.

Manipulations

contents

This section lists all manipulations specified in the configuration files in alphabetical order. For each manipulation, you will find the section containing the manipulation and a short description about what is manipulated.

PDF Checker

Additionally, the PDF Checker check initiating the specific manipulation is specified for each manipulation. This is evaluated if a PDF Adjust log file is specified when calling PDF Checker and the check is marked as failed in it.

Reference

PDF Checker provides a list and short descriptions of the checks contained in delivery of [PDFCHECKER_USR].

AddActionAdjust

`[AddActionAdjust]`
Section: `[CatalogDictionaryAdjust]`
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: `AddActionCheck`

AlignMetadata

`[AlignMetadata]`
Section: `[MetadataAdjust]`
Description: `AlignMetadata` adjusts the items in the info dictionary and those in the XMP metadata. If a difference is detected, the XMP metadata item is set to the value of the info dictionary item. PDF Adjust checks the eight items described in the PDF/A standard.
Correspondent PDF Checker check: `DefaultMetadataCheck`

AnnotationHypertextAdjust

`[AnnotationHypertextAdjust]`
Section: `[PlusAdjust]`
Description: `AnnotationHypertextAdjust` removes the hypertext actions from annotations.
Correspondent PDF Checker check: `AnnotationHypertextCheck`

AnnotAdjustFFlags

`[AnnotAdjustFFlags]`
Section: `[AnnotationAdjust]`
Description: `AnnotAdjustFFlags` sets the annotation's properties that are allowed in the PDF/A standard.
Correspondent PDF Checker check: `AnnotationFlagCheck`

To be continued

Manipulations, Continuation

AnnotNamedAdjust	[AnnotNamedAdjust] Section: [AnnotationAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: AnnotationNamedCheck
AnnotRemoveActions	[AnnotRemoveActions] Section: [AnnotationAdjust] Description: AnnotRemoveActions removes the actions that do not effect the appearance of the output file from the annotations. Correspondent PDF Checker check: AnnotationActionCheck
AnnotRemoveAdditionalAction	[AnnotRemoveAdditionalAction] Section: [AnnotationAdjust] Description: AnnotRemoveAdditionalAction removes the additional actions from the annotations. An additional action is, for example, playing a sound file. Correspondent PDF Checker check: AnnotationAdditionalActionCheck
AnnotRemoveAppearanceStream	[AnnotRemoveAppearanceStream] Section: [AnnotationAdjust] Description: Placeholder manipulation because a manipulation of the appearance mode would effect the appearance of the output file. Correspondent PDF Checker check: AnnotationAPEntryCheck
AnnotRemoveFlags	[AnnotRemoveFlags] Section: [AnnotationAdjust] Description: Placeholder manipulation because a manipulation of the flags would effect the appearance of the output file. Correspondent PDF Checker check: AnnotationFlagCheck
AnnotRemoveTransparency	[AnnotRemoveTransparency] Section: [AnnotationAdjust] Description: AnnotRemoveTransparency removes transparency with 100% opacity from the annotations. Correspondent PDF Checker check: AnnotationTransparencyCheck
AnnotRemoveTypes	[AnnotRemoveTypes] Section: [AnnotationAdjust] Description: Placeholder manipulation because a manipulation of the types would effect the appearance of the output file. Correspondent PDF Checker check: AnnotationTypeCheck

To be continued

Manipulations, Continuation

[BookmarkActionAdjust] BookmarkActionAdjust
Section: [BookmarkAdjust]
Description: BookmarkActionAdjust removes the actions that do not effect the appearance of the output file from the bookmarks.
Correspondent PDF Checker check: BookmarkActionCheck

[BookmarkHypertextAdjust] BookmarkHypertextAdjust
Section: [PlusAdjust]
Description: BookmarkHypertextAdjust removes the hypertext actions from the bookmarks.
Correspondent PDF Checker check: BookmarkHypertextCheck

[BookmarkNamedAdjust] BookmarkNamedAdjust
Section: [BookmarkAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: BookmarkNamedCheck

[CatalogEFAdjust] CatalogEFAdjust
Section: [CatalogDictionaryAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: CatalogEFCheck

[CatalogJavaScriptAdjust] CatalogJavaScriptAdjust
Section: [CatalogDictionaryAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check.
Correspondent PDF Checker check: CatalogJavaScriptCheck

[ElementAdjust] ElementAdjust
Section: [PDFA1B]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: ElementCheck

To be continued

Manipulations, Continuation

EmbedFonts

[EmbedFonts]
Section: [FontAdjust]
Description: EmbedFonts embeds all non-embedded TrueType and Type1 fonts.
Correspondent PDF Checker check: FontEmbedCheck

Caution: Restriction

A font can only be embedded if it is available on the local workstation. Type0 fonts cannot be embedded!

Hint

PDF Adjust behaves like Adobe Reader when embedding fonts. Due to fonts that have been embedded as an alternative, the texts may be shifted slightly.

Reference

For how to embed your own fonts refer to [PDFADJUST_TEC].

ExtensionSchemaAdjust

[ExtensionSchemaAdjust]
Section: [ExtendedMetadataAdjust] in [MetadataAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: ExtensionSchemaCheck

FontBBoxAdjust

[FontBBoxAdjust]
Section: [FontAdjust]
Description: FontBBoxAdjust corrects the bounding box of a Type3 font.
Correspondent PDF Checker check: FontBBoxCheck

FontCMapAdjust

[FontCMapAdjust]
Section: [FontAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: FontCMapCheck

FontSubsetAdjust

[FontSubsetAdjust]
Section: [FontAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: FontSubsetCheck

To be continued

Manipulations, Continuation

`[FontSystemInfo]` `FontSystemInfo`

Section: `[FontAdjust]`

Description: `FontSystemInfo` adjusts the `Registry` and `Ordering` items in CIDFont to those in CMap. If these items differ, the appearance is different depending on which item is read by the specific reader. This manipulation is only relevant for Type0 fonts.

Correspondent PDF Checker check: `Type0SystemInfoCheck`

`[FontSymbolEncoding]` `FontSymbolEncoding`

Section: `[FontAdjust]`

Description: `FontSymbolEncoding` removes the `Encoding` item from the font dictionary of symbolic TrueType fonts. An `Encoding` item is prohibited in the PDF/A standard because symbolic fonts contain special characters such as company logos that are not contained in the standard encoding. Applying the specified encoding to the font might result in a misinterpretation of the text.

Correspondent PDF Checker check: `SymbolicFontCheck`

`[FontType2Mapping]` `FontType2Mapping`

Section: `[FontAdjust]`

Description: In Type2 fonts, `FontType2Mapping` sets the `CIDToGIDMap` item to the `Identity` value that is allowed in the PDF/A norm unless a permissible value has been specified already.

Correspondent PDF Checker check: `FontGIDMapCheck`

`[FontUnicode]` `FontUnicode`

Section: `[PDFA1A]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check.

Correspondent PDF Checker check: `FontEncodingCheck`

`[FormFieldAdjust]` `FormFieldAdjust`

Section: `[CatalogDictionaryAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check.

Correspondent PDF Checker checks: `XFAFormFieldCheck`, `NeedApp-FormFieldCheck`

To be continued

Manipulations, Continuation

FormOPIAdjust	[FormOPIAdjust] Section: [FormAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: FormOPICheck
FormPost-scriptAdjust	[FormPostscriptAdjust] Section: [FormAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: FormPostscriptCheck
FormReference-Adjust	[FormReferenceAdjust] Section: [FormAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: FormReferenceCheck
FormTranspar-encyAdjust	[FormTransparencyAdjust] Section: [FormAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: FormTransparencyCheck
GraphicStateR-enderingAdjust	[GraphicStateRenderingAdjust] Section: [GraphicStateAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: GraphicStateRenderingCheck
GraphicStateT-ransferFunc-tionAdjust	[GraphicStateTransferFunctionAdjust] Section: [GraphicStateAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: GraphicStateTransferFunc-tionCheck

To be continued

Manipulations, Continuation

`[GraphicStateTransferFunctionAdjust1]` — `GraphicStateTransferFunctionAdjust1`

Section: `[GraphicStateAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `GraphicStateTransferFunctionCheck1`

`[GraphicStateTransparencyAdjust]` — `GraphicStateTransparencyAdjust`

Section: `[GraphicStateAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `GraphicStateTransparencyCheck`

`[HeaderAdjust]` — `HeaderAdjust`

Section: `[CommonAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library corrects a possible error in the header when saving the PDF output file.

Correspondent PDF Checker check: `HeaderCheck`

`[ICCAdjust]` — `ICCAdjust`

Section: `[ColorSpaceAdjust]`

Description: Placeholder manipulation because the color profile that had been used when creating the PDF file is not available and the usage of another color profile would effect the appearance.

Correspondent PDF Checker check: `ICCCheck`

`[IDAdjust]` — `IDAdjust`

Section: `[CommonAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library corrects the ID when saving the PDF output file.

Correspondent PDF Checker check: `IDCheck`

`[ImageAlternateAdjust]` — `ImageAlternateAdjust`

Section: `[ImageAdjust]`

Description: `ImageAlternateAdjust` removes alternate appearances from the images.

Correspondent PDF Checker check: `ImageAlternateCheck`

To be continued

Manipulations, Continuation

ImageFilterAdjust	[ImageFilterAdjust] Section: [ImageAdjust] Description: ImageFilterAdjust replaces the JPXDecode compression by the DCTDecode compression in images. Correspondent PDF Checker check: ImageFilterCheck
ImageInterpolationAdjust	[ImageInterpolationAdjust] Section: [ImageAdjust] Description: ImageInterpolationAdjust removes the Interpolate item from the image dictionary, this means that the interpolation of images is deactivated. Correspondent PDF Checker check: ImageInterpolationCheck
ImageOCAdjust	[ImageOCAdjust] Section: [ImageAdjust] Description: Placeholder manipulation because the removal of the optional content might effect the appearance of the PDF file. Correspondent PDF Checker check: ImageOCCheck
ImageOPIAdjust	[ImageOPIAdjust] Section: [ImageAdjust] Description: ImageOPIAdjust removes the Open Prepress Interface from images. Correspondent PDF Checker check: ImageOPICheck
ImageRenderAdjust	[ImageRenderAdjust] Section: [ImageAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: ImageRenderCheck
ImageStreamAdjust	[ImageStreamAdjust] Section: [ImageAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: ImageStmCheck
MetadataUsedAdjust	[MetadataUsedAdjust] Section: [CatalogDictionaryAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library enters some XMP metadata when saving the PDF output file. Correspondent PDF Checker check: MetadataUsedCheck

To be continued

Manipulations, Continuation

[OpenActionAdjust] — OpenActionAdjust
Section: [CatalogDictionaryAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check.
Correspondent PDF Checker check: OpenActionCheck

[OptionalContentAdjust] — OptionalContentAdjust
Section: [CatalogDictionaryAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: OptionalContentCheck

[PageAdditionalActionAdjust] — PageAdditionalActionAdjust
Section: [PageAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: PageAdditionalActionCheck

[PageSizeAdjust] — PageSizeAdjust
Section: [PlusAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: PageSizeCheck

[PageTransparencyAdjust] — PageTransparencyAdjust
Section: [PageAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: PageTransparencyCheck

[PageUserUnitAdjust] — PageUserUnitAdjust
Section: [PlusAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: PageUserUnitCheck

To be continued

Manipulations, Continuation

RemoveAlternateCS

[RemoveAlternateCS]
Section: [PlusAdjust]
Description: RemoveAlternateCS removes an alternate color space from a color space.
Correspondent PDF Checker check: AlternateCSCheck

RepairAdjust

[RepairAdjust]
Section: [CommonAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library corrects this error when saving the PDF file.
Correspondent PDF Checker check: RepairCheck

ReplacePDFAMetadata

[ReplacePDFAMetadata]
Section: [MetadataAdjust]
Description: ReplacePDFAMetadata corrects the pdfaid metadata according to the format that is specified in the corrigendum of the PDF/A standard.
Correspondent PDF Checker check: XMPCorrigendumCheck

ReplaceProtectedFonts

[ReplaceProtectedFonts]
Section: [FontAdjust]
Description: Placeholder manipulation because the exchange of protected fonts is not possible in a reliable way.
Correspondent PDF Checker check: FontRestrictionCheck

SecurityAdjust

[SecurityAdjust]
Section: [PDFA1B], [PDFA1B-ColorspaceAdjust], [PDFA1B-MetadataAdjust]
Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.
Correspondent PDF Checker check: SecurityCheck

SetOutputIntent

[SetOutputIntent]
Section: [ColorSpaceAdjust]
Description: SetOutputIntent sets the OutputIntent item in the catalog dictionary for device-dependent color spaces. The output intent is required in the PDF/A standard if a device-dependent color space is contained in the PDF file. By default, AdobeRGB1998.icc is set as output intent for DeviceRGB color spaces and ISOcoated_v2_eci.icc as output intent for DeviceCMYK color spaces.
Correspondent PDF Checker checks: DeviceColorSpaceCheck, AnnotationDeviceCSCheck

To be continued

Manipulations, Continuation

`[SetXMPConformanceMetadata]` — `SetXMPConformanceMetadata`

Section: `[MetadataAdjust]`

Description: `SetXMPConformanceMetadata` sets the `pdfaid:conformance` item in the XMP metadata to `B`. This item is prescribed in the PDF/A standard.

Correspondent PDF Checker check: `RequestedXMPCheck`

`[SetXMPPartMetadata]` — `SetXMPPartMetadata`

Section: `[MetadataAdjust]`

Description: `SetXMPPartMetadata` sets the `pdfaid:part` item in the XMP metadata to `1`. This item is prescribed in the PDF/A standard.

Correspondent PDF Checker check: `RequestedXMPCheck`

`[StreamExtRefAdjust]` — `StreamExtRefAdjust`

Section: `[StreamAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `StreamExtRefCheck`

`[StreamFilterAdjust]` — `StreamFilterAdjust`

Section: `[StreamAdjust]`

Description: `StreamFilterAdjust` replaces the LZW compression by the FlateDecode compression.

Correspondent PDF Checker check: `StreamFilterCheck`

`[StrictExtensionSchemaAdjust]` — `StrictExtensionSchemaAdjust`

Section: `[StrictExtendedMetadataAdjust]` in `[StrictMetadataAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `StrictExtensionSchemaCheck`

`[StrictFontSubsetAdjust]` — `StrictFontSubsetAdjust`

Section: `[StrictFontAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `StrictFontSubsetCheck`

To be continued

Manipulations, Continuation

StrictXMPAdjust	[StrictXMPAdjust] Section: [StrictExtendedMetadataAdjust] in [StrictMetadataAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library enters some XMP metadata when saving the PDF output file. Correspondent PDF Checker check: StrictXMPCheck
StrictXMPNamespaceAdjust	[StrictXMPNamespaceAdjust] Section: [StrictExtendedMetadataAdjust] in [StrictMetadataAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: StrictXMPNamespaceCheck
TaggedAdjust	[TaggedAdjust] Section: [PDFA1A] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: TaggedCheck
TrailerAdjust	[TrailerAdjust] Section: [CommonAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library corrects a possible error in the trailer when saving the PDF output file. Correspondent PDF Checker check: TrailerCheck
TypeAdjust	[TypeAdjust] Section: [ColorSpaceAdjust] Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file. Correspondent PDF Checker check: TypeCheck
UncompressObjects	[UncompressObjects] Section: [CommonAdjust] Description: UncompressObjects sets the flag that objects are not compressed during saving. Correspondent PDF Checker check: CompressionCheck

To be continued

Manipulations, Continuation

`[VersionAdjust]` — `VersionAdjust`

Section: `[CommonAdjust]`

Description: `VersionAdjust` sets the PDF version of the output file to 1.4 due to format elements such as XMP metadata are available as of this version. The PDF/A standard generally prohibits all features introduced as of PDF version 1.4.

Correspondent PDF Checker check: `VersionCheck`

`[WidgetAnnotationAdjust]` — `WidgetAnnotationAdjust`

Section: `[AnnotationAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `WidgetAnnotationActionCheck`

`[WidgetAnnotationAPStreamAdjust]` — `WidgetAnnotationAPStreamAdjust`

Section: `[AnnotationAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `WidgetAnnotationAPStreamCheck`

`[WordEncodingMissingAdjust]` — `WordEncodingMissingAdjust`

Section: `[WordAdjust]` in `[PDFA1B]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `WordEncodingMissingCheck`

`[XMPAdjust]` — `XMPAdjust`

Section: `[ExtendedMetadataAdjust]` in `[MetadataAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library enters some XMP metadata when saving the PDF output file.

Correspondent PDF Checker check: `XMPCheck`

`[XMPFilterAdjust]` — `XMPFilterAdjust`

Section: `[MetadataAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. However, the Adobe PDF Library removes the compression from the XMP metadata when saving the PDF output file, this means that the XMP metadata can be read as clear text.

Correspondent PDF Checker check: `XMPFilterCheck`

To be continued

Manipulations, Continuation

XMPNamespace-Adjust

`[XMPNamespaceAdjust]`

Section: `[ExtendedMetadataAdjust]` in `[MetadataAdjust]`

Description: Placeholder manipulation because a manipulation is not (yet) available for the PDF Checker check. It does not effect the output file.

Correspondent PDF Checker check: `XMPNamespaceCheck`

Bibliography

[ISO19005-1]	ISO/DIS 19005-1 Document management - Electronic document file format for long-term preservation, Part 1: Use of PDF 1.4 (PDF/A-1) (01.10.2005)
[PDF_REF]	*PDF Reference*, Version 1.4
[PDFADJUST_TEC]	PDF Adjust, System Description, SEAL Systems
[PDFCHECKER_TEC]	PDF Checker, System Description, SEAL Systems
[PDFCHECKER_USR]	PDF Checker, User Manual, SEAL Systems

Terminology

The following section explains the most important terms that are used in this documentation. Terms marked by → refer to other terms within this section.

Action	Element in PDF; an action, for example, playing a sound file, assigned to an annotation for example
Annotation	Element in PDF; associates an object, for example, a comment or a sound file, with a page of a PDF file.
Bookmark	Element in PDF; facilitates the navigation in the PDF file; bookmarks are constructed as tree structure.
Catalog dictionary	Element in PDF; →Dictionary that exists once per PDF file and contains document-wide information such as the basic language, settings how the document is displayed and the start of the →page tree
Check	Rule that →PDF Checker tests with the →PDF file
CMap	Mapping of character codes and characters in fonts
Color profile	Data set describing a color space
Color space	Element in PDF; color space describing the colors available in the PDF file; examples of color spaces are DeviceGray, DeviceCMYK or ICCBased.
Compression	Element in PDF; specifies the method how the data of a →stream are to be interpreted; examples of compression modes are ASCIIHexDecode, LZWDecode or Flate-Decode.
Configuration file	File in that the →manipulations processed by →PDF Adjust in the →PDF file are configured
Content stream	Element in PDF; →stream describing the content of a page in the PDF file
Debug file	Optional file into that →PDF Adjust writes details of the program run
Dictionary	Element in PDF; describes single objects in a PDF file, for example, font dictionary, →catalog dictionary or annotation dictionary; contains key-value-pairs providing information about the correspondent object
External object	→XObject
Filter	→Compression
Form XObject	→XObject compiling several graphical objects (images, text, vector elements)
Graphics state	Element in PDF; contains information about a graphical element in the PDF file
Group XObject	→XObject compiling several →form Xobjects
Header	Start of the →PDF file
Image	Element in PDF; graphical object, for example, a photo or a raster graphic
Info dictionary	Element in PDF; →dictionary containing metadata about the PDF file, for example, the author or the creation date
Language file	File containing the language-dependent texts of →PDF Adjust
Level A	Includes all rules of the →PDF/A standard
Level B	Includes all →PDF/A standard rules concerning the presentation
Log file	File into that →PDF Adjust writes the results of the →manipulations
Manipulation	Rule according to that →PDF Adjust manipulates the →PDF file
Metadata	Global information about the →PDF file, for example, the author or the creation date; contained in the →info dictionary and in the →XMP metadata

Output intent	Color profile for device-dependent colors
Page tree	Element in PDF; tree structure via that single →pages of the PDF file are accessed
PDF/A standard	ISO standard (ISO/DIS 19005-1) specifying the requirements for PDF files suitable for long-term preservation
PDF Adjust	Command line program by SEAL Systems for manipulating →PDF files according to the specified rules
PDF Checker	Command line program by SEAL Systems for testing →PDF files against specified →checks
PDF file	File in PDF which is manipulated by →PDF Adjust according to the specified →manipulations
PDF Longlife	Graphical user interface of PDF Adjust and PDF Checker
PDF Longlife Suite	Complete package with PDF Adjust, PDF Checker, PDF Longlife and the DPF processes for checking and adjusting on a server
PostScript XObject	→XObject containing PostScript code
Stream	Element in PDF; contains the bytes to be interpreted, for example, of a graphical object; a stream can be read incrementally.
Trailer	End of the →PDF file
XMP metadata	Element in PDF; contains metadata about the PDF file in XML
XObject	Element in PDF; graphical object containing a self-contained →stream independent of the →content stream

Abbreviations

ASCII	American Standard Code for Information Interchange
CCITT	Comité Consultatif International Téléphonique et Télégraphique
CID	Character ID
CMYK	Cyan Magenta Yellow Key
DCT	Discrete Cosine Transform
DPI	Dots Per Inch
GID	Glyph ID
ICC	International Color Consortium
ISO	International Organization for Standardization
JPEG	Joint Photograhic Experts Group
LZW	Lempel-Ziv-Welch
OPI	Open Prepress Interface
PDF	Adobe Portable Document Format
PID	Process ID
PS	Postscript
RGB	Red Green Blue
TIFF	Tagged Image File Format
URI	Uniform Resource Identifier
XML	Extensible Metadata Language
XMP	Extensible Metadata Platform

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